What is claimed is:

1. A method of watermarking a digital image, comprising the steps of:

transforming the digital image using a wavelet transform(WT);

transforming a watermark using discrete cosine transform(DCT); and

integrating the DCT-transformed watermark with the wavelet-transformed image to generate a watermark-embedded image.

2. The method of claim 1, comprising the step of inverse wavelet transforming the wavelet transformed image.

3. The method of claim 1, wherein the DCT-transformed watermark is further transformed using m-level wavelet transform before being integrated with the wavelet-transformed image.

4. The method of claim 3, wherein said wavelet transform is performed using a filter bank realizing high-speed wavelet-transform.

5. The method of claim 1, wherein said wavelet transform is performed using a filter bank realizing high-speed wavelet-transform.

6. The method of claim 1, wherein in obtaining the image integrated with a

watermark, a scaling parameter, alpha, is used to adjust the spacing between the original image and the watermark.

7. The method of claim 1, wherein the digital image and the watermark are black and white.

8. A system for watermarking a digital image comprising:

means for providing a digital image and a watermark, and

a digital processing system for transforming the digital image using wavelet transform(WT), transforming the watermark using discrete cosine transform (DCT) and integrating the DCT-transformed watermark with the wavelet – transformed image to generate a watermark-embeded image.

9. A system of claim 8, wherein the system includes means for carrying out digital watermarking a black and white image using the wavelet transform(WT) and the discrete cosine transform (DCT), wherein the watermark is black and white.

10. A system of claim 9, comprising means for providing an m-level wavelet transform (WT) before it is integrated wavelet transformed image.

11. A system of claim 9, wherein the system includes filter-banks for providing high-speed wavelet-transform and for providing inverse wavelet transform.

12. A method of digital watermarking a color image comprising the steps of;

discrete cosine transform (DCT) transforming a watermark,

wavelet transform (WT) a color image, and

integrating the DCT-transformed watermark with wavelet transform (WT) color image.

13. A method of claim 12, comprising the steps of:

converting the color image in the RGB mode, RGB(x), into Y(x), I(x), and Q(x) in the YIQ mode using a conversion matrix,

14. A method of claim 13, comprising the steps of:

transforming Y(x) of the converted image using wavelet transform;

transforming a watermark; W(y), using discrete cosine transform(DCT);

integrating the DCT-transformed watermark, WC (y), with the wavelet-transformed color image, DW (x);

generating Y-values of the integrated image, Y (x)', using inverse wavelet transform; and

generating a watermark-embedded image in the RGB mode, RGB(x)', by inverse transformation of Y(x)', I(x)', and Q(x)'.

15. The method of claim 12, wherein the DCT-transformed watermark WC(y)) is further transformed using m-level wavelet transform before being integrated with the wavelet-transformed color image DW(x).

16. The method of claim 12, wherein said wavelet transform is performed using filter-banks realizing high-speed wavelet-transform.

17. The method of claim 12, wherein said wavelet transform is performed using filter-banks realizing high-speed wavelet-transform.

18. A system of digital watermarking a color image comprising:

means for providing a color image and a black and white watermark; and

a digital data processing means for digital watermarking the color image with the black and white watermark using wavelet transformation(WT) and discrete cosine transform (DCT).

19. A system according to Claim 18, comprising :

means for converting the color image in the RGB mode, RGB(x), into Y(x), I(x), and Q(x) in the YIQ mode using a conversion matrix,

means for transforming Y(x) of the converted image using wavelet transform;

means for transforming the watermark in black and white, W(y), using DCT;

means for integrating the DCT-transformed watermark, WC (y), with the wavelet-transformed color image, DW (x);

means for generating Y-values of the integrated image, Y (x)', using inverse wavelet transform; and

means for generating a watermark-embedded image in the RGB mode, RGB(x)', by inverse transformation of Y(x)', I(x)', and Q(x)'.

20. A system of digital watermarking a color image, comprising :

means for converting the color image in the RGB mode, RGB(x), into Y(x), I(x), and Q(x) in the YIQ mode using a conversion matrix,

means for transforming Y(x) of the converted image using wavelet transform;

means for transforming a watermark, W(y), using DCT;

means for further transforming the DCT-transformed watermark WC(y)) using m-level wavelet transform;

means for integrating the DCT-transformed watermark, WC (y), with the wavelet-transformed color image, DW (x);

means for generating Y-values of the integrated image, Y (x)', using inverse wavelet transform; and

means for generating a watermark-embedded image in the RGB mode, RGB(x)', by inverse transformation of Y(x)', I(x)', and Q(x)'.